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APPLICATION NO. FILING DATE		ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/629,121 07/28/2003		003	Roger Pruitt	\$604-J 5906		
7590 09/07/2004				EXAMINER		
Bruce A. Jagger				JIANG, CHEN WEN		
BRUNTON &	JAGGER			· ·		
P.O. Box 2900	0 :	ART UNIT	PAPER NUMBER			
Glendale, CA 91209-9000				3744		

DATE MAILED: 09/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

### Diffice Action Summary Diffice Action Summary		Application	No.	Applicant(s)	111
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply sepecified above is less than this (20) does, a neply white the statutory minimum of this (20) days will be considered timely. If the period for reply sepecified above is less than this (20) does, a neply white the statutory minimum of this (20) days will be considered timely. If the period for reply sepecified above is less than this (20) does, a neply white the statutory minimum of this (20) days will be considered timely. If the period for reply septimed above, the maximum tabulatory period will apply and will expire X(6) (X) (XITAT for the maining date of this communication. Any reply received by the Office later than the mailing date of this communication, even if timely filed, may reduce any examed pair to the major and the considered timely. This action is FINAL. 2b) This action is non-final. 3) Responsive to communication for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s) 1-4.6-10.12-22,24,25,27-38,40-43 and 45 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5 Claim(s) 1-4.5-10.13-22,24,25,27-29,34-38,40 and 41 is/are rejected. Claim(s) 1-3,19-22,24,25,27-29,34-38,40 and 41 is/are rejected. Claim(s) 1-3,19-22,24,25,27-29,34-38,40 and 41 is/are rejected. Claim(s) 1-4,5-10-10-10-10-10-10-10-10-10-10-10-10-10-		10/629,121		PRUITT, ROGER	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address—Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the precisions of 32 CFR 113(6), in no event, however, may a reply be timely filled with the SN (6) MONTHS from the realing date of this communication of the SN (6) MONTHS from the realing date of this communication of the SN (6) MONTHS from the realing date of this communication. Failure to reply within the set of cotended period for reply will, by datable, cause the speciation to become ABANDONED (30 U.S. § 133). Any reply accorded by the Officia bethe that there removes where the mailing date of the communication, even if famely filled, may reduce any secured platent term adjustment. 2se 27 CFR 170(1) This action is FINAL. 2b)☐ This action is fill accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)☐ Claim(s) 1-4,6-10.12-22,24.25.27-38.40-43 and 45 is/are pending in the application. 4a) Of the above claim(s)	Office Action Summary	Examiner		Art Unit	
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THE MAILING DATE OF THIS COMMUNICATION. Eldersines of time may be aroubble under the provisions of 31°CFR 1.136(a). In no event, however, may a reply be timely filled after SD (0) MONITHS from the mailing date of this communication. Failure to reply within the rectification of the provision	The MAILING DATE of this communication Period for Reply	appears on the c	over sheet with the c	orrespondence add	dress
Status 1) Responsive to communication(s) filed on 23 June 2004. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4.6-10.12-22,24,25,27-38,40-43 and 45 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 4.6-10.12-14.30-33.42,43 and 45 is/are allowed. 6) Claim(s) 1-3.15-22,24,25,27-29.34-38,40 and 41 is/are rejected. 7) Claim(s)	THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by so Any reply received by the Office later than three months after the new the set of th	DN. R 1.136(a). In no event, 1. a reply within the statutor briod will apply and will extatute, cause the applicat	however, may a reply be tim minimum of thirty (30) day: pire SIX (6) MONTHS from ton to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	mmunication.
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Application/Control Number: 10/629,121

Art Unit: 3744

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 41 recites the limitation "said ambient air" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.
- 3. The following rejections are based on the best understanding of the claimed limitations.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 34-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaughan (U.S. Patent Number 4,090,370) in view of Shum (U.S. Patent Number 4,658,597).

Vaughan discloses an environmental control system for regulating humidity and temperature. Applicant notes that the system of Fig.9 is a serial process. However, Fig.9 is not a part of the office action. Referring to Figs.1,7 and 8, cooling is accomplishing by actuating the blower 20 in the dry air flow path so that air from the confined volume flows through the first group of tubes 14, through the plenum chamber 16 and through the second group of tubes 18. The water pump 52 is actuated to spray water in the evaporation path and on the padding 32 surrounding the tubes 14,18, and the axial-centrifugal blower 26 is turned on to direct air through the evaporation flow path. If humidification is also desired, the first controllable vent 28 is

opened, while the second controllable vent 30 is closed so that humidified air from the evaporation flow path is expelled to the confined volumetric region. As air passed across the moistened tubes 14,18, the water in the padding 32, as well as some of the water spray, evaporates, chilling the padding 32 surrounding the tubes 14,18. Heat exchanged between the interior and exterior of the tubes chills the dry flow path air within the tubes which is expelled from the outlet chamber to the confined volumetric region. The inlet duct 34 has a manually movable hinged plate 38 defining an auxiliary inlet (Figs. 7 and 8) in which the plate 38 is extended in an open position. The auxiliary inlet, when open, allows recirculation of room air through the evaporation path (from plurality sources to wet side). The evaporation path outlet duct 36 is coupled by a transfer duct 37 to the dry flow path inlet 12 to selectively admit humidified evaporation flow path air to the dry air flow path. A control unit 62 includes the high and low temperature and humidity sensors. A temperature and humidity responsive control unit is integrally coupled to selectively actuate the controllable vents, the blowers, the pump and the heating element. In regard to claim 34, Applicant should note the selection of available power source is a design choice within the skill of prior art (e.g., Shum). In regard to claims 36-38, the selection of temperature, humidity and timer, Applicant should note these are the user's choice and are not patentable. Vaughan discloses an apparatus satisfying the structural requirements of the claimed. The disclosed apparatus also enjoys the same utility as that claimed. The level of the cooling and humidity do not impose any structural limitations upon the claimed apparatus which differentiates it from a prior art apparatus satisfying the *structural* limitations of that claimed. See In re Pearson, 494 F2d. 1399, 181 USPQ 641 (CCPA 1974).

6. Claims 1-3,15-19,20,28,29,40 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaughan (U.S. Patent Number 4,090,370) in view of Schlom et al. (U.S. Patent Number 4,137,058).

Vaughan discloses an environmental control system for regulating humidity and temperature. Applicant notes that the system of Fig. 9 is a serial process. However, Fig. 9 is not a part of the office action. Referring to Figs. 1,7 and 8, cooling is accomplishing by actuating the blower 20 in the dry air flow path so that air from the confined volume flows through the first group of tubes 14, through the plenum chamber 16 and through the second group of tubes 18. The water pump 52 is actuated to spray water in the evaporation path and on the padding 32 surrounding the tubes 14,18, and the axial-centrifugal blower 26 is turned on to direct air through the evaporation flow path. If humidification is also desired, the first controllable vent 28 is opened, while the second controllable vent 30 is closed so that humidified air from the evaporation flow path is expelled to the confined volumetric region. As air passed across the moistened tubes 14,18, the water in the padding 32, as well as some of the water spray, evaporates, chilling the padding 32 surrounding the tubes 14,18. Heat exchanged between the interior and exterior of the tubes chills the dry flow path air within the tubes which is expelled from the outlet chamber to the confined volumetric region. The inlet duct 34 has a manually movable hinged plate 38 defining an auxiliary inlet (Figs. 7 and 8) in which the plate 38 is extended in an open position. The auxiliary inlet, when open, allows recirculation of room air through the evaporation path (from plurality sources to wet side). Turbulent flow is inherent in the system since these two stream combined in perpendicular way. The evaporation path outlet duct 36 is coupled by a transfer duct 37 to the dry flow path inlet 12 to selectively admit

humidified evaporation flow path air to the dry air flow path. A control unit 62 includes the high and low temperature and humidity sensors. A temperature and humidity responsive control unit is integrally coupled to selectively actuate the controllable vents, the blowers, the pump and the heating element. However, Vaughan does not disclose supply air combined in a confined space. Schlom et al. disclose two streams can be combined in a confined space 127 (Fig. 4) in the same field of endeavor for the purpose of combined flows. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the apparatus of Vaughan with a combined space in view of Schlom et al. so as to combine flows. In regard to the selection of temperature, humidity and timer, Applicant should note these are the user's choice and are not patentable. Vaughan discloses an apparatus satisfying the structural requirements of the claimed. The disclosed apparatus also enjoys the same utility as that claimed. The level of the cooling and humidity do not impose any structural limitations upon the claimed apparatus which differentiates it from a prior art apparatus satisfying the *structural* limitations of that claimed. See *In re Pearson*, 494 F2d. 1399, 181 USPQ 641 (CCPA 1974).

7. Claims 21,22,24,25 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaughan (U.S. Patent Number 4,090,370) in view of Schlom et al. (U.S. Patent Number 4,137,058) and further in view of Curtis (U.S. Patent Number 4,674,295).

Vaughan discloses an environmental control system for regulating humidity and temperature. Applicant notes that the system of Fig.9 is a serial process. However, Fig.9 is not a part of the office action. Referring to Figs.1,7 and 8, cooling is accomplishing by actuating the blower 20 in the dry air flow path so that air from the confined volume flows through the first group of tubes 14, through the plenum chamber 16 and through the second group of tubes 18. All

the inlets can include room air. The water pump 52 is actuated to spray water in the evaporation path and on the padding 32 surrounding the tubes 14,18, and the axial-centrifugal blower 26 is turned on to direct air through the evaporation flow path. If humidification is also desired, the first controllable vent 28 is opened, while the second controllable vent 30 is closed so that humidified air from the evaporation flow path is expelled to the confined volumetric region. As air passed across the moistened tubes 14,18, the water in the padding 32, as well as some of the water spray, evaporates, chilling the padding 32 surrounding the tubes 14,18. Heat exchanged between the interior and exterior of the tubes chills the dry flow path air within the tubes which is expelled from the outlet chamber to the confined volumetric region. The inlet duct 34 has a manually movable hinged plate 38 defining an auxiliary inlet (Figs. 7 and 8) in which the plate 38 is extended in an open position. The auxiliary inlet, when open, allows recirculation of room air through the evaporation path (from plurality sources to wet side). The evaporation path outlet duct 36 is coupled by a transfer duct 37 to the dry flow path inlet 12 to selectively admit humidified evaporation flow path air to the dry air flow path. A control unit 62 includes the high and low temperature and humidity sensors. A temperature and humidity responsive control unit is integrally coupled to selectively actuate the controllable vents, the blowers, the pump and the heating element. However, Vaughan does not disclose supply wet and dry air discharge into conduit and combined in a location remote from the dry side and also does not disclose plurality wet side blowers. Schlom et al. disclose two streams can be combined in a remote location 127 (Fig. 4) in the same field of endeavor for the purpose of combined flows. Curtis discloses plurality blowers for wet side inlets. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the apparatus of Vaughan

with a blowers and conduit in view of Schlom et al. and Curtis so as to deliver flows. Vaughan discloses an apparatus satisfying the structural requirements of the claimed. The disclosed apparatus also enjoys the same utility as that claimed. The utility is capable to place an object in heat exchanging relationship with the water source.

Allowable Subject Matter

8. Claims 4,6-10,12-14,30-33,42,43 and 45 are allowed.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chen-Wen Jiang whose telephone number is (703) 308-0275. The examiner can normally be reached on Tuesday-Friday from 7:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on (703) 308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chen-Wen Jiang
Primary Examiner